

**TABLE 14-1F
BOILERS, GAS- AND OIL-FIRED,
MINIMUM EFFICIENCY REQUIREMENTS**

Equipment Type ^f	Size Category	Sub-Category or Rating Condition	Minimum Efficiency ^b	Test Procedure
Boilers, Gas-Fired	< 300,000 Btu/h	Hot Water	80% AFUE	DOE 10 CFR Part 430
		Steam	75% AFUE	
	≥300,000 Btu/h and ≤ 2,500,000 Btu/h	Maximum Capacity ^b Minimum Capacity ^b	75% E _t	H.I. Htg Boiler Std
	> 2,500,000 Btu/h ^f	Hot Water	80% E _c	
	> 2,500,000 Btu/h ^f	Steam	80% E _c	
Boilers, Oil-Fired	< 300,000 Btu/h		80% AFUE	DOE 10 CFR Part 430
	≥300,000 Btu/h and ≤ 2,500,000 Btu/h	Maximum Capacity ^b Minimum Capacity ^b	78% E _t —	H.I. Htg Boiler Std
	> 2,500,000 Btu/h ^f	Hot Water	83% E _c	
	> 2,500,000 Btu/h ^f	Steam	83% E _c	
Oil-Fired (Residual)	≥300,000 Btu/h and ≤2,500,000 Btu/h	Maximum Capacity ^b Minimum Capacity ^b	78% E _t —	H.I. Htg Boiler Std
	> 2,500,000 Btu/h ^f	Hot Water	83% E _c	
	> 2,500,000 Btu/h ^f	Steam	83% E _c	
^a Reserved. ^b Minimum and maximum ratings as provided for and allowed by the unit's controls. ^c E _c = Combustion efficiency (100% less flue losses). See reference document for detailed information. ^d E _t = Thermal efficiency. See reference document for detailed information. ^e Alternate test procedures used at the manufacturer's option are ASME PTC-4.1 for units over 5,000,000 Btu/h input, or ANSI Z21.13 for units greater than or equal to 300,000 Btu/h and less than or equal to 2,500,000 Btu/h input. ^f These requirements apply to boilers with rated input of 8,000,000 Btu/h or less that are not packaged boilers, and to all packaged boilers. Minimum efficiency requirements for boilers cover all capacities of packaged boilers.				